



SPYWOLF

Security Audit Report



Completed on
September 3, 2022

MADE IN USA 

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **Meta-stake Pilots** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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Meta-stake Pilots



PROJECT DESCRIPTION

According to their whitepaper:

Meta-stake pilots (MSP) will be a P2E crypto game with the following options - Fly2Earn and Fight2Earn. Users can buy game objects like Fuel, Weapon, Airplanes (Fighter), Helicopter and many other things to prepare for Earning or Combat. Players can buy NFTs like Gas Station and Auto Pilot to have passive income.

Release Date: Presale starts on Sep, 2022

Category: Play to earn (P2E)



CONTRACT INFO

Token Name

Meta-Stake Pilots

Symbol

MSP

Contract Address

0xFF9b9bCb9E26669eDc10F4A3195EA71584FB19d

Network

Binance Smart Chain

Language

Solidity

Deployment Date

August 29, 2022

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

TAXES

Buy Tax

3%

Sell Tax

5%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



CURRENT STATS

(As of Sept 02, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:
Not Launched!

MaxTxAmount
No limit

DEX:
PancakeSwap

LP Address(es)

Liquidity not added yet



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 MSP
Median Transfer Amount	1000000000 MSP
Average Transfer Amount	1000000000 MSP
First transfer date	2022-08-29
Last transfer date	2022-08-29
Days token transferred	1

SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	1
Days contract called	2
Last transaction time	2022-08-31 13:16:57 UTC
Created	2022-08-29 18:39:12 UTC
Create TX	0xb7da4f3afeb4ff4724c75192461fc554731251e764fef468f20db841c9a438d5
Creator	0xd899bd4cd12af5da7ce4a3d3b95a2d8438f08bcd



FEATURED WALLETS

Owner address	0xd899bd4cd12af5da7ce4a3d3b95a2d8438f08bcd
Marketing fee receiver	0x4491Ee2cfcdc99Ed715Ee2876e94DAE4cBb1ad2e
LP address	Liquidity not added yet

TOP 3 UNLOCKED WALLETS

1



Same as owner

*Tokens are not distributed yet



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



⚠ High Risk

Put limitation to addresses and value length to avoid DDOS attacks.

```
function multiSend(address[] memory _to, uint256[] memory _value) external returns (bool) {  
    require(_to.length == _value.length);  
    address sender = msg.sender;  
    for (uint16 i = 0; i < _to.length; i++) {  
        _transferFrom( sender, _to[i], _value[i] * (10 ** _decimals));  
    }  
    return true;  
}
```





Informational

Owner can change reward to any token.

```
function setMarketingReward(address _reward) external onlyOwner {  
    REWARD = address(_reward);  
}
```

Owner can withdraw native tokens, reward tokens and bnb from the contract.

```
function transferForeignToken(address _token) external onlyOwner returns (bool) {  
    require(_token == address(this) || _token == WBNB || _token == REWARD , "only reward and BNB!");  
    if(_token == WBNB){  
        require(address(this).balance > 0 , "no BNB balance in contract");  
        payable(marketingFeeReceiver).transfer(address(this).balance);  
        return true;  
    }  
  
    uint256 _contractBalance = IBEP20(_token).balanceOf(address(this));  
    if(_token != address(this)){  
        IBEP20(_token).transfer(marketingFeeReceiver , _contractBalance);  
        return true;  
    }  
  
    _contractBalance = _contractBalance.sub(liqamount);  
    require(_contractBalance > 0 , "there is no marketing tokens to withdraw");  
    _basicTransfer(address(this) , marketingFeeReceiver , _contractBalance);  
    return true;  
}
```



Informational

Owner can change buy and sell fees combined up to 24% and transfer fees up to 24%.

```
function setFees(uint256 _liquidityFeeSell, uint256 _marketingFeeSell, uint256 _burnFeeSell, uint256 _transferFee,
uint256 _liquidityFeeBuy, uint256 _marketingFeeBuy, uint256 _burnFeeBuy) external onlyOwner {
    uint256 _totalFeeSell = _liquidityFeeSell.add(_marketingFeeSell).add(_burnFeeSell);
    uint256 _totalFeeBuy = _liquidityFeeBuy.add(_marketingFeeBuy).add(_burnFeeBuy);
    require(_totalFeeSell.add(_totalFeeBuy) <= 240, "maximum total (buy + sell) fee is 24");
    require(_transferFee <= 240, "maximum transfer fee is 24");

    liquidityFeeSell = _liquidityFeeSell;
    marketingFeeSell = _marketingFeeSell;
    burnFeeSell = _burnFeeSell;
    totalFeeSell = _totalFeeSell;
    liquidityFeeBuy = _liquidityFeeBuy;
    marketingFeeBuy = _marketingFeeBuy;
    burnFeeBuy = _burnFeeBuy;
    totalFeeBuy = _totalFeeBuy;
    transferFee = _transferFee;
    emit feeChanged(_liquidityFeeSell, _marketingFeeSell, _burnFeeSell,
        _liquidityFeeBuy, _marketingFeeBuy, _burnFeeBuy, _transferFee);
}
```

Owner can exclude address from fees and max wallet limitations.

```
function setFeeExempt(address holder, bool exempt) external onlyOwner {
    isFeeExempt[holder] = exempt;
}

function setLimitExempt(address holder, bool exempt) external onlyOwner {
    isLimitExempt[holder] = exempt;
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

Meta-stake Pilots

GOOD PRACTICES FOUND

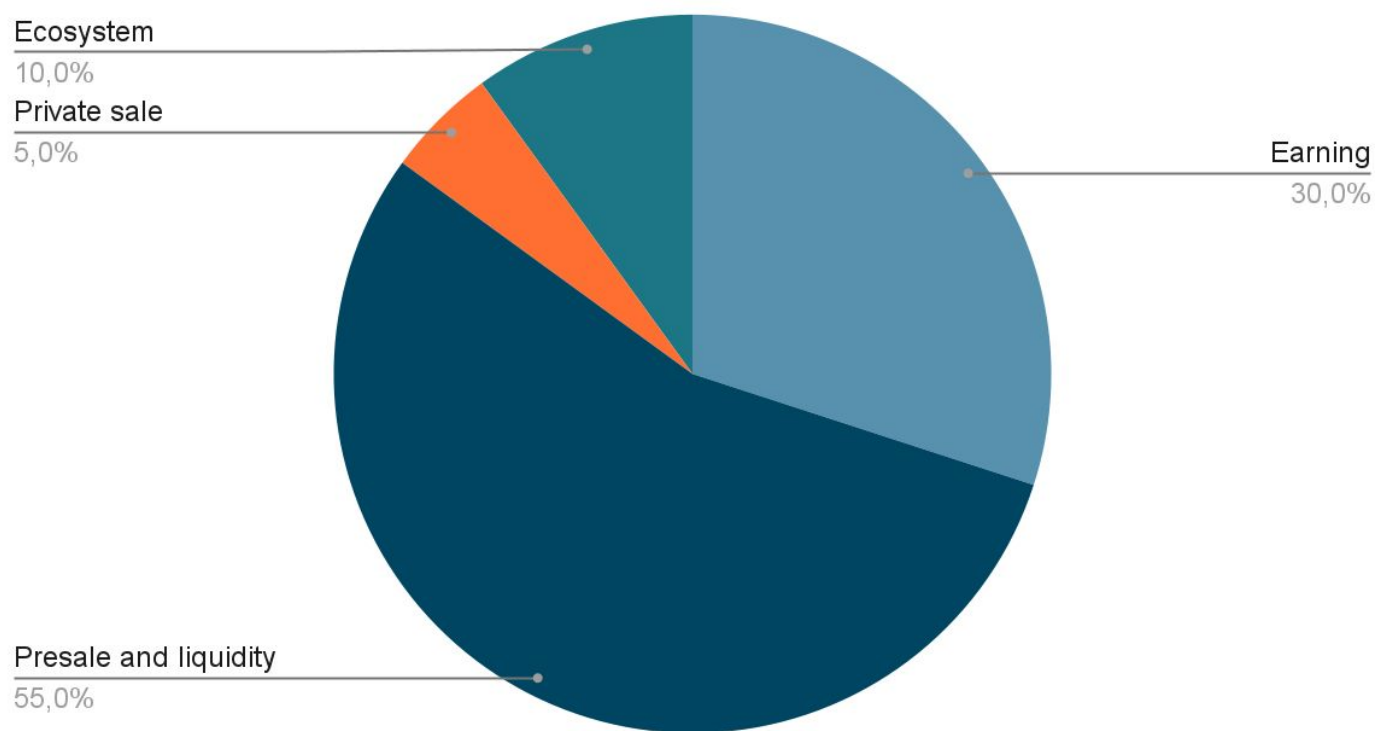
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract



*The following tokenomics are based on the project's whitepaper and/or website:

- 55% - Presale and Liquidity
- 30% - Earning
- 10% - Ecosystem
- 5% - Private sale

Tokens distribution



TOKENOMICS



THE TEAM

! The team is
anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://mспilots.com/>

Domain Registry

<https://www.key-systems.net>

Domain Expiration

Expires on 2023-07-26

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Unique design, appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

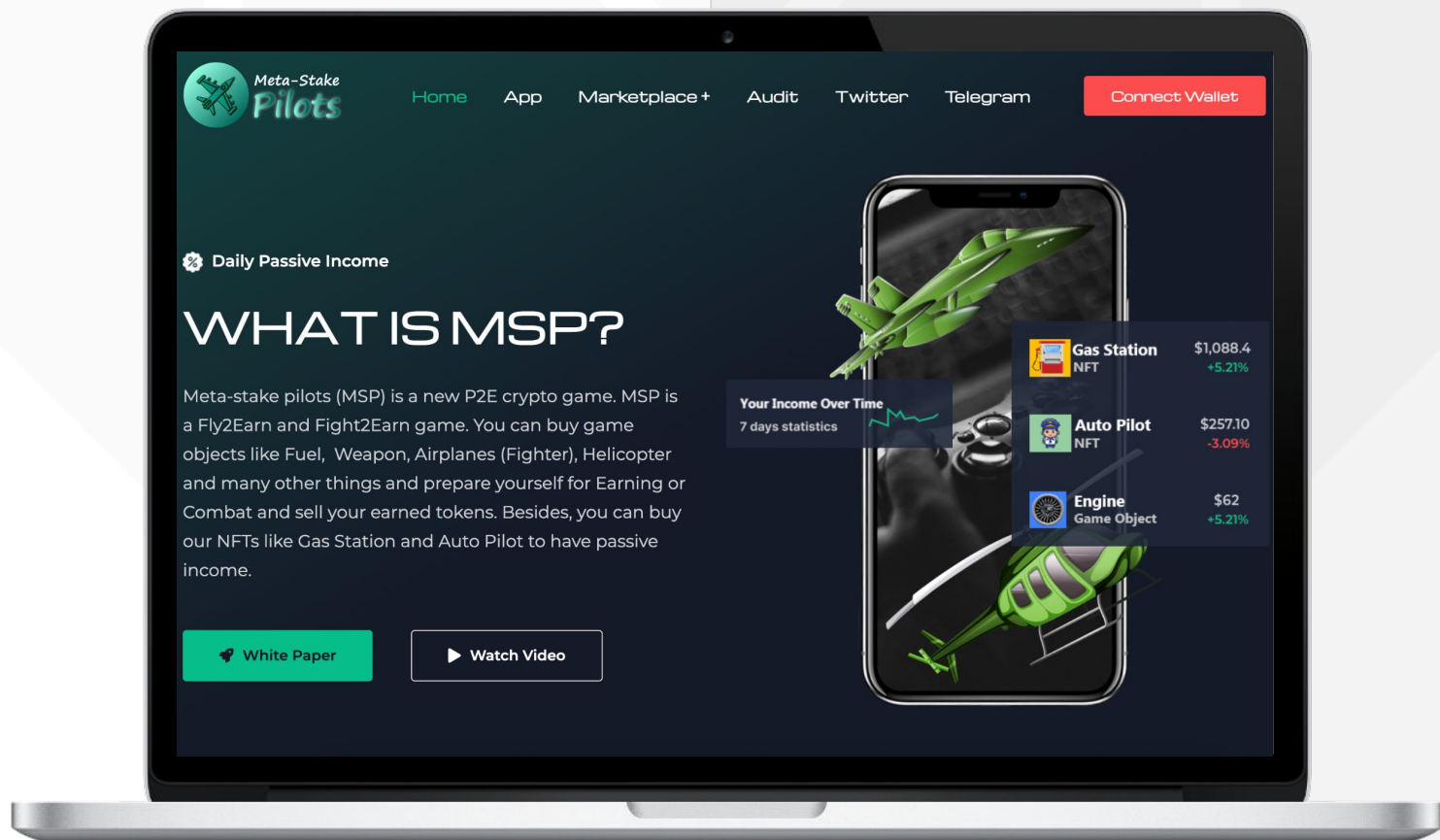
Well written, explanatory.

Roadmap

Yes, goals set with time frames.

Mobile-friendly?

Yes



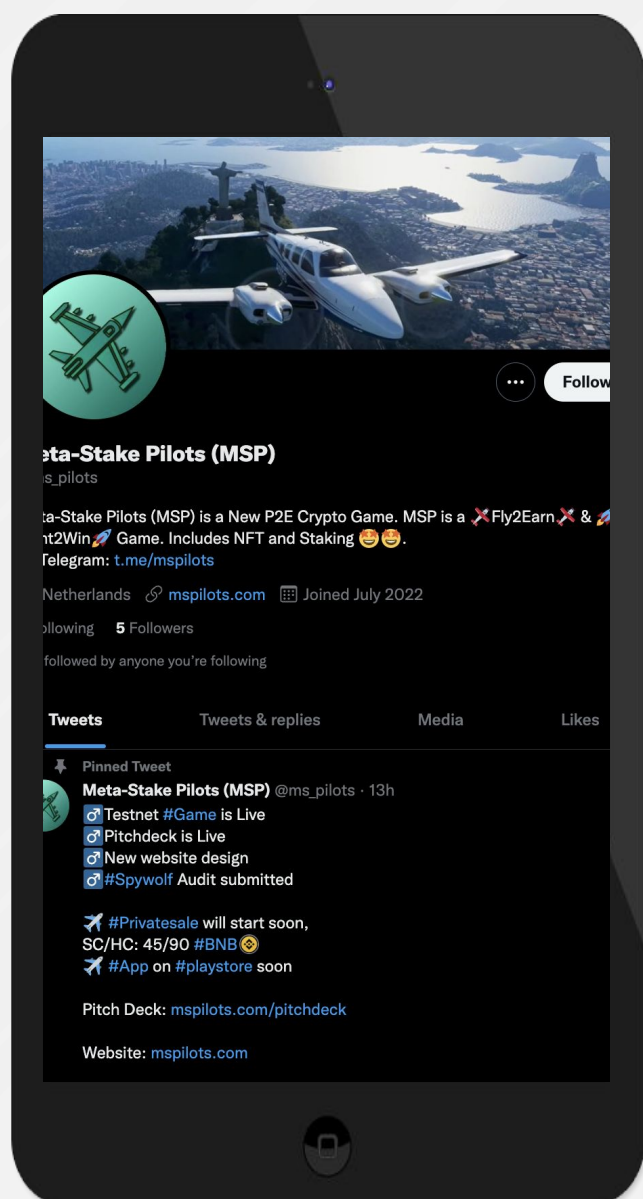
mспilots.com



SOCIAL MEDIA & ONLINE PRESENCE



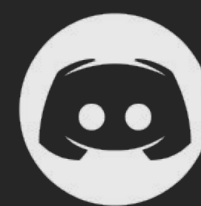
ANALYSIS



Twitter

@ms_pilots

- 3 followers ⚠️
- 1 post total ⚠️
- New account



Discord

Discord link here

- Not available



Telegram

@mspilots

- 8119 members
- Active mods and devs
- Daily announcements



Medium

Medium link here

- Not available



SPYWOLF

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We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.